

Claims:

1. A method for extracting components, particularly impurities, from liquids or solids dispersions by using compressed extraction agents such as, for instance, supercritical or liquid carbon dioxide, characterized in that the liquid or dispersion is applied as a thin film in a pressure-tight reactor and the surface of the thin film is treated with the extraction agent, particularly carbon dioxide, whereby the surface of the thin film is constantly renewed over at least a portion of the layer thickness of the thin film by mechanically acting on said liquid or dispersion.

2. A method according to claim 1, characterized in that the renewal of the surface of the thin film is effected by the aid of wipers, rollers or doctor blades, while simultaneously adjusting the layer thickness.

3. A device for carrying out the method according to claim 1 or 2, including a pressure-tight reactor (1) having at least one charging opening (14, 16) for the liquid or dispersion to be treated and the compressed extraction agent as well as appropriate discharge openings (15, 17), characterized in that the charging opening (14) for the liquid or dispersion to be treated opens on the inner shell (13) of the reactor (1), and that a rotor (8) is arranged in the interior of the reactor (1), the radial arms of said rotor cooperating with the liquid or dispersion film on the inner shell (13) of the reactor (1).

4. A device according to claim 3, characterized in that said radial arms carry rods (11), scrapers, wipers or rollers (12) extending in the direction of the axis of rotation (9).

5. A device according to claim 3 or 4, characterized in that the reactor (1) comprises a substantially cylindrical or funnel-shaped conical inner shell (13).

6. A device according to any one of claims 3, 4 or 5, characterized in that the rotor shaft (7) is connected with a drive (6) via a magnetic coupling.

7. A device according to any one of claims 3 to 6, characterized in that the charging opening (14) is designed as a radial and axial bore provided in a lid (2) capable of being sealingly connected with the tubular reactor (1).

8. A device according to any one of claims 3 to 7, characterized in that the reactor (1) is designed as a tube including flanges (4, 5) connected to the tube ends, and that the lids (2, 3) capable of being sealingly connected in a pressure-tight manner are attachable to the flanges (4, 5).